

Application No.: 09/644,634

Docket No.: 60680-1407

AMENDMENTS TO THE CLAIMS

1-38 (Cancelled)

39. (Original) An insulated fuel cell plate comprising:
a plate having first and second surfaces; and
a coating precursor applied on at least one of the first and second surfaces of the plate,
the coating precursor comprising:
an acrylated aliphatic urethane oligomer;
an acrylated epoxy oligomer;
a mono-functional monomer for reducing viscosity of the coating precursor;
a multi-functional monomer for increasing cross-link density;
an adhesion promoter; and
a photoinitiator.
40. (Original) The insulated fuel cell plate of claim 39, wherein the mono-functional monomer is isobornyl acrylate monomer.
41. (Original) The insulated fuel cell plate of claim 39, wherein the adhesion promoter is a methacrylated polyol.
42. (Original) The insulated fuel cell plate of claim 39, wherein the multi-functional monomer is propoxylated glycerol triacrylate monomer.
43. (Original) The insulated fuel cell plate of claim 39, wherein the photoinitiator is a blend of 1-phenyl-2-hydroxy-2-methyl-1-propanone and benzophenone.
44. (Original) The insulated fuel cell plate of claim 39, wherein the coating precursor further comprises an air-release agent.

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45. (Original) The insulated fuel cell plate of claim 44, wherein the air-release agent is a polydimethyl siloxane.

46-59. (Cancelled)

60. (Previously Presented) An ultraviolet radiation curable coating precursor, comprising:
an acrylated aliphatic urethane oligomer;
an acrylated epoxy oligomer;
a mono-functional monomer for reducing viscosity of the coating precursor;
a multi-functional monomer for increasing cross-link density;
an adhesion promoter; and
a photoinitiator,
wherein the adhesion promoter is a methacrylated polyol.

61. (Previously Presented) An ultraviolet radiation-curable coating precursor comprising:
from about 25 wt. % to about 65 wt. % of an acrylated aliphatic urethane oligomer;
from about 5 wt. % to about 20 wt. % of an acrylated epoxy oligomer;
from about 20 wt. % to about 40 wt. % of a mono-functional monomer for reducing viscosity of the coating precursor;
from about 1 wt. % to about 5 wt. % of a multi-functional monomer for increasing cross-link density;
from about 1 wt. % to about 15 wt. % of an adhesion promoter; and
from about 0.1 wt. % to about 10 wt. % of a photoinitiator,
wherein the adhesion promoter is a methacrylated polyol.